ArcelorMittal Burns Harbor, LLC.
Flat Carbon Steel

ArcelorMittal

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Peter Ramanauskas, RCRA Corrective Action Project Manager
United States Environmental Protection Agency, Region 5
77 Jackson Boulevard (LU-9J)
Chicago, IL 60604-3507

August 3, 2010
PJ/DW/PSA

Subject: Corrective Measures Implementation (CMI) Report Update
Waste Water Pump Station No. 2 Surface Impoundment (IA-1) and
Corrective Action Completion Report and Quarterly Progress Report for
Locomotive Fueling Station
ArcelorMittal Burns Harbor, LLC, IND003913423

Dear Mr. Ramanauskas,

Per your request during our conversation on July 16th, enclosed are an updated CMI Report for IA-1, a Corrective Action Completion Report for Diesel Impacted Soil (dated July 31, 2008), and a Quarterly Progress Report for the Diesel Fuel Product Recovery system (dated August 3, 2010). These documents are being submitted in order to receive EPA agreement that no further action is warranted at the Wastewater Pump Station No. 2 Surface Impoundment and Locomotive Diesel Fueling Station areas.

The updated IA1 Report provides documentation that the groundwater monitoring has met the "Criteria for Termination" specified in Section 5 of the EPA-approved CMI Workplan. Your written concurrence that we can terminate future monitoring is requested.

The Corrective Action Completion Report for Diesel Impacted Soil and Quarterly Progress Report provide documentation that an appropriate and complete response to the discovery of the historical release was implemented.

These reports conclude all of the corrective measures requirements for the Burns Harbor facility. Therefore, it is also requested that Burns Harbor receive your written concurrence that the requirement to maintain financial assurance for corrective action is no longer needed.

If there are any questions, comments or concerns regarding this matter, please contact me at (219) 787-4643
Sincerely,

Teri Kirk
Environmental Engineer

Cc: D. P. Bley

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Environmental Mgmt. Dept.
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August 3, 2010
Project No. 2387353-01

IA-1 SEMIANNUAL REPORT 2010 AND REQUEST FOR APPROVAL TO TERMINATE GROUNDWATER MONITORING

WASTEWATER PUMP STATION NO. 2 SURFACE IMPOUNDMENT (N.I.16)

Prepared For:

ArcelorMittal Burns Harbor, LLC
250 West U.S. Highway 12
Burns Harbor, IN 46304-9745

CHICAGO, ILLINOIS
COLUMBUS, OHIO
DENVER, COLORADO
FORT WORTH, TEXAS
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ST. LOUIS, MISSOURI

WEAVER BOOS CONSULTANTS LLC

GEO-ENVIRONMENTAL ENGINEERS AND SCIENTISTS

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APPENDIX

1.0 INTRODUCTION

1.1 Background Information

Weaver Boos Consultants, LLC (Weaver Boos) completed this report to present the results of the on-going groundwater monitoring program through the second quarter of 2010 at the Wastewater Pump Station (WWPS) No. 2 surface impoundment, Investigation Area 1 (IA-1). The IA-1 surface impoundment is located east-southeast of the No. 2 WWPS at the ArcelorMittal Burns Harbor, LLC (ArcelorMittal) Facility located in Burns Harbor, Indiana.

The IA-1 surface impoundment is a former drying bed that was used to dry nonhazardous sludge and coke oven gas condensate in the early 1970s. The area covers approximately 13,000 square feet. In 1986, the Bethlehem Steel Corporation, which owned the facility at the time, excavated the material that remained in the drying bed, nearly reaching the water table, and disposed of this material off site. During the Phase 1 RFI, the soil at the base of the impoundment was sampled and analyzed. Results confirmed that the 1986 excavation had successfully removed the source material and that IA-1 is not a continuing source of release to the groundwater. However, groundwater sampling and analyses conducted during both the Phase 1 and Phase 2 RFI indicated that benzene and toluene are present in the groundwater immediately downgradient of the impoundment. Benzene and toluene are typical constituents of coke oven gas condensate and other coke byproducts. Groundwater elevations measured during the Phase 1 and Phase 2 RFI consistently indicated groundwater flow towards the south-southwest, in the direction of the Stormwater/Non-Contact Cooling Water (SW/NCCW) Discharge Channel. Additionally, concentrations of benzene in groundwater immediately downgradient of the surface impoundment were found to exhibit a positive correlation with changes in groundwater elevation in monitoring well IA1-OW-1, particularly between 2001 and 2003.

Based on these results, it was concluded that the groundwater fluctuation zone at IA-1 contains residual material that is causing localized concentrations of benzene in the groundwater. On April 3, 2003, representatives of the EPA visited IA-1 to identify practical additional sampling steps. In a letter dated April 10, 2003, EPA requested "further groundwater sampling to determine the source and extent (as far as feasible) of the contamination on the south end of the impoundment area". In response to EPA's request, ArcelorMittal prepared a sampling and analysis plan to further assess the groundwater that included the installation of two new monitoring wells (IA1-OW-4 and IA1-OW-5) south of IA1 and quarterly monitoring of groundwater for benzene and toluene. Weaver Boos implemented the quarterly groundwater

monitoring and prepared this report describing the results obtained between 2001 and the second quarter of 2010.

1.2 Purpose and Objectives

The purpose, scope of work, and objectives for the annual sampling activities described in this report are specified in the October 31, 2006 Corrective Measures Implementation (CMI) Work Plan for the IA-1 Surface Impoundment that was approved by EPA on November 14, 2006. The CMI Work Plan specified the following activities:

- Collection and analyses of groundwater samples from three monitoring wells (IA1-OW-1, IA1-OW-4, IA1-OW-5);
- Measurement of groundwater levels and calculation of groundwater elevations at all of the groundwater sample locations for groundwater flow direction verification; and,
- Assessment of the results in light of criteria for termination of monitoring.

Following receipt of the analytical data, the results were compared with screening levels and plotted with the previous Phase 1 and Phase 2 RFI data for trend analysis in IA1-OW-1, IA1-OW-4, IA1-OW-5. The objective of the evaluation of groundwater data is to assess whether additional groundwater monitoring or remedial measures are appropriate for conditions at IA-1.

This report considers data collected beginning as early as 2001, and with the completion of the 3 ½ years of groundwater monitoring during 2007, 2008, 2009, and the first half of 2010, assesses compliance with the approved termination criteria. As further discussed in **Section 4.0**, it is clear that the objectives of the CMI Work Plan, including termination criteria, have been met. Weaver Boos and ArcelorMittal therefore request EPA's review, concurrence with these findings, and approval to cease the on-going groundwater monitoring program at IA-1.

2.0 SITE ACTIVITIES

2.1 Groundwater Level Measurements

Weaver Boos measured water levels during each sampling event on February 15, 2010, and June 15, 2010 to assess groundwater flow directions. The monitoring wells included in the sampling plan are IA1-OW-1, IA1-OW-4, and IA1-OW-5. These monitoring wells are located as shown in **Figures 1 through 3**. Water levels were measured using an electric tape accurate to 0.01 feet. The water levels were recorded on Field Survey Forms as provided in **Appendix A**. Water level measurements are summarized as shown in **Table 1**. Using wellhead elevations provided by ArcelorMittal, groundwater elevations were computed for each measuring point as further indicated in **Table 1**.

2.2 Groundwater Sampling

Groundwater samples were collected from monitoring wells IA1-OW-1, IA1-OW-4, and IA1-OW-5 on February 15, 2010 and on June 15, 2010. The groundwater samples were acquired in accordance with the CMI Work Plan dated October 31, 2006. The specific procedures utilized for groundwater sampling are described below.

Prior to sampling, both the depth to groundwater and the total depth of the monitoring wells were measured using an electric tape. These data were recorded and the volume of water contained in the well casing was computed for each well. Three well volumes were then purged using disposable polyethylene bailers. Following the purging of three well volumes from each well, a sample and duplicate sample was collected. Groundwater sampling information was recorded on Field Survey Report forms, which are provided in **Appendix A**.

Groundwater samples for quantitative analysis were gently dispensed into their respective containers using the bottom emptying device packaged with each bailer. All samples were containerized in triplicate 40-milliliter vials that were pre-preserved by the manufacturer with concentrated hydrochloric acid. ArcelorMittal's analytical contractor, Microbac Laboratory (Microbac) of Merrillville, Indiana, provided sample containers utilized for this effort. The samples were sealed, labeled, placed on ice, documented with a chain-of-custody form, and hand delivered by Weaver Boos to the laboratory.

2.3 Field and Analytical QA/QC

During each of the sampling events, QA/QC samples included field duplicates for each monitoring well sample, one field blank, and the transportation and analysis of one trip blank.

The field duplicates were labeled IA1-OW-1-Duplicate, IA1-OW-4-Duplicate, and IA1-OW-5-Duplicate. The duplicate samples were collected concurrently with the primary groundwater samples collected at each of these locations. The field blanks were collected by dispensing DI water supplied by Microbac from an unused polyethylene bailer into empty sample vials as previously described. The trip blank was prepared and sealed by the laboratory and accompanied the sampling containers and samples beginning with their delivery to Weaver Boos and ending with their return to the laboratory.

Groundwater samples were analyzed for benzene in accordance with SW-846 Method 8260B. Microbac provided the required analytical services. The resulting analytical reports are provided in **Appendix B**.

3.0 RESULTS

3.1 Groundwater Flow Direction

As shown in **Figures 2, 3, and summarized in Table 1**, the groundwater flow direction beneath IA-1 during 2010 was towards the south-southwest. Little or no variation in groundwater flow direction is indicated between the quarterly sampling events completed in 2010. Additionally, the quarterly groundwater flow direction remains essentially unchanged from 2007, 2008, and 2009.

3.2 Groundwater Concentrations

The average of the sample and duplicate analytical results for the monitoring well groundwater samples are summarized in **Table 2**. The highest concentrations of benzene were found at IA1-OW-1, which is immediately downgradient of the surface impoundment. The most recent sampling event occurring on June 15, 2010 indicated benzene at 41,500 µg/L. The benzene concentrations attenuate rapidly over only a short distance. In monitoring wells IA1-OW-4 and IA1-OW-5, which are located approximately 100 feet downgradient from IA1-OW-1, benzene concentrations were either not detected or were detected at concentrations less than the site-specific screening level of 52 µg/L. The observed attenuation of 2 to 3 orders of magnitude over a distance of just 100 feet is consistent with the occurrence of natural attenuation and a plume that is either stable or shrinking.

The time trend for benzene in monitoring well IA1-OW-1 is paired together with groundwater elevation in **Figure 4**. Time trends between 2001 and 2003 suggest direct correlation between benzene concentration and water level. After 2003 the water levels generally increased by an average of approximately 1.75 feet, and remained at the resulting elevated level averaging about 597 feet above mean sea level (msl) between 2007 and 2010. The benzene concentrations appeared to generally increase with the rise in water level after 2003, but the direct correlation between concentration and water level appears to have ended. The benzene concentrations measured in IA1-OW-1 during 2007, 2008, 2009, and 2010 now reveal an overall downward trend regardless of fluctuation of the elevated groundwater level as shown on **Figure 4**.

Time trend results for monitoring well IA1-OW-4 are plotted in **Figure 5**. No correlation between concentration and water level is apparent in this well, primarily because the concentrations are all low. The benzene concentration in well IA1-OW-4 has remained less than the industrial RISC default closure level (52 µg/L) for all 14 consecutive quarters during 2007,

2008, 2009, and 2010. Moreover, the benzene concentration has remained below the residential RISC default closure level (5 µg/L) for the last eight consecutive quarters.

Time trend results for monitoring well IA1-OW-5 are plotted in **Figure 6**. Except during the first two quarters, no correlation between concentration and water level is apparent in this well, primarily because the concentrations are all low. Additionally, the benzene concentrations measured in monitoring well IA1-OW-5 reveal a general downward trend for the last 14 quarters as shown on **Figure 6**. Benzene concentrations measured in IA1-OW-5 have remained less than the industrial RISC default closure level (52 µg/L) during the last seven consecutive quarters.

3.3 QA/QC Results

Duplicate sample results reported in **Appendix B** show primary and duplicate groundwater concentrations that are nearly equal, indicating good sampling and analytical precision. Results for field blanks showed no detectable concentrations during the 2010 sampling events. Results for the trip blank during February 2010 also showed no detectable concentration. Results for the June 2010 trip blank indicated benzene at 25 µg/L, possibly suggesting that cross contamination occurred during transportation or analysis. The consequence of this result is likely to be an upward bias in the lesser concentrated site samples collected during June 2010. Except for "b" flags denoting the detection of benzene in the associated method blank for the samples collected from OW-5 during February 2010, Microbac reported their results without qualification. The likely consequence of this flag is a slight upward bias in the benzene concentrations reported for the OW-5 samples during February 2010. Because the only upward bias suggested by QA/QC results is upward, Weaver Boos considers the site data obtained during both sampling events to be useable for their stated purpose.

3.4 Criteria for Termination

The approved CMI Work Plan states that groundwater monitoring may terminate at IA-1 when one of the following events has occurred:

- Three years from the anniversary date of the first sample event if plume stability is demonstrated using the Mann-Kendall trend test described in Appendix 3 of IDEM's RISC Technical Resource Document, or
- If an increasing trend in plume stability is shown, semiannual testing of the two new downgradient wells [IA1-OW-4 and IA1-OW-5] shows benzene concentrations equal to or less than the industrial RISC default closure level (52 µg/L) over two consecutive sampling events.

Results obtained during 2007, 2008, 2009, and 2010 are evaluated according to these criteria in the following subsections of this report. Mann-Kendall trend testing is discussed first. Concentrations are then compared with relevant numerical standards.

3.4.1 Mann-Kendall Trend Testing

The first termination criterion relies on the non-parametric Mann-Kendall statistical procedure to evaluate the benzene time trends. The Mann-Kendall test requires no assumptions as to the statistical distribution of the data. The Mann-Kendall statistic (S) measures the trend in the data. Positive values indicate an increase in concentrations over time, whereas negative values indicate a decrease in concentrations over time. The strength of the trend is proportional to the magnitude of the Mann-Kendall statistic. The confidence on the Mann-Kendall statistic can be measured by assessing the S result along with the number of samples, n, to find the confidence in the trend by using a normal approximation for larger data sets (i.e., greater than 10 measurements).

The data collected from monitoring wells at IA-1 are evaluated using the Mann-Kendall trend test as explained in Appendix 3 of IDEM's RISC Technical Resource Document. This evaluation was completed using a Microsoft® Excel spreadsheet specifically developed by Weaver Boos to manage 14 data points. Using the data from IA-1, our spreadsheet was checked and verified against the more general Excel spreadsheet available for download at IDEM's website: http://www.in.gov/idem/4213.htm. Our spreadsheet yielded the same results in cases where the datasets were not dominated by non-detect results (i.e., less than 5.0 µg/L). The IDEM's spreadsheet specifically omits the capability of managing 14-point datasets containing more than 6 equal values (such as non-detect), whereas ours is not similarly limited. Our spreadsheet also expresses the confidence on the Mann-Kendall statistic as a percent.

The spreadsheet and results for well IA1-OW-1 are provided on **Figure 7**. The data for this well indicate the highest benzene concentrations measured at IA-1 and include no non-detect values. The slope of the linear approximation illustrated in the graphical data plot is downward. The Mann-Kendall statistic (S) is -42, indicating a strong downward trend. The confidence on the downward trend is calculated at 97.4 percent, confirming the strength and statistical significance of the trend.

The spreadsheet and results for well IA1-OW-4 are provided on **Figure 8**. The data for this well are dominated by non-detect values (9 of 14 measurements are non-detect), rendering this well less suitable to trend analysis. Notwithstanding this limitation, ½ of the detection limit (2.5 µg/L) is substituted for the non-detect results and the adjusted values plotted. The linear approximation illustrated in the graph shows a small downward slope. The Mann-Kendall

statistic (S) is -5, indicating a weak downward trend. The confidence on the downward trend is 61.0 percent. However, given that all except one concentration (27 µg/L on May 22, 2008) measured in this well were 5.5 µg/L or less, the weakness of the trend is not relevant. The trend is weak simply because the great majority of the results are non-detect and almost no opportunity remains for improvement of groundwater quality at this well.

The spreadsheet and results for well IA1-OW-5 are provided on **Figure 9**. The data for this well include three non-detect values, for which we substituted ½ of the reporting limit. The slope of the linear approximation illustrated in the graph is downward. The Mann-Kendall statistic (S) is -15, indicating a downward trend. The confidence on the downward trend is calculated at 76.5 percent.

The first termination criterion for groundwater monitoring is clearly met. Results of the Mann-Kendall trend test indicate downward trends in all monitoring wells at IA-1. The strongest downward trend is demonstrated with 97.4 percent confidence in monitoring well IA1-OW-1 where the greatest concentrations of benzene have been historically detected. A moderately strong trend is indicated in well IA1-OW-5 where benzene concentrations have declined to less than the industrial RISC default closure level (52 µg/L) during the last seven consecutive quarters. A weak downward trend is shown in well IA1-OW-4, but the trend is weak only because the concentrations are low. The benzene concentration in well IA1-OW-4 has remained less than the industrial RISC default closure level (52 µg/L) throughout 2007, 2008, 2009, 2010, and less than the residential RISC default closure level (5 µg/L) for the last eight consecutive quarters.

3.4.2 Comparison with Numerical Standards

The second termination criterion for groundwater monitoring is also clearly met. The second termination criterion considers benzene concentrations measured in well IA1-OW-4 and IA1-OW-5 as compared with the industrial RISC default closure level (52 µg/L). The benzene concentration in well IA1-OW-4 has remained less than the industrial RISC default closure level during each of the 14 consecutive quarters in 2007, 2008, 2009, and 2010. Moreover, the benzene concentration at this well has remained below the residential RISC default closure level (5 µg/L) for the last eight consecutive quarters. Benzene concentrations measured in IA1-OW-5 have remained less than the industrial RISC default closure level during the last seven consecutive quarters.

4.0 CONCLUSION

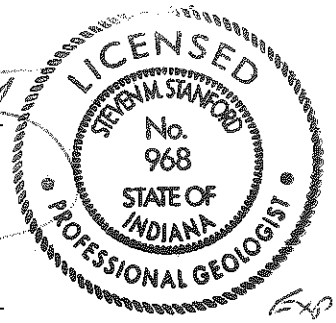
Groundwater monitoring for benzene continued during 2010 consistent with the currently approved CMI Work Plan. The concentrations of benzene in monitoring wells IA1-OW-4 and IA1-OW-5 continued to indicate attenuation of 2 to 3 orders of magnitude just 100 feet downgradient from the former impoundment. The rapid attenuation of benzene concentrations with distance indicates that natural attenuation has continued at IA1 during 2010. Considering data collected beginning as early as 2001, and with the completion of the 14 consecutive quarters of groundwater monitoring during 2007, 2008, 2009, and 2010, Weaver Boos concludes the following with regard to compliance with the approved termination criteria:

- Results of the Mann-Kendall trend test indicate downward trends in all monitoring wells at IA-1. The strongest downward trend is demonstrated with 97.4 percent confidence in monitoring well IA1-OW-1 where the greatest concentrations of benzene have been historically detected. A moderately strong downward trend is indicated in well IA1-OW-5 where benzene concentrations have declined to less than the industrial RISC default closure level (52 µg/L) during the last seven consecutive quarters. A weak downward trend is shown in well IA1-OW-4, but the trend is weak only because the concentrations are so low that no room remains for improvement in groundwater quality. The first termination criterion for groundwater monitoring is clearly met, providing sufficient basis to end the groundwater monitoring program at IA-1.
- The second termination criterion considers benzene concentrations measured in well IA1-OW-4 and IA1-OW-5 as compared with the industrial RISC default closure level. The benzene concentration in well IA1-OW-4 has remained less than the industrial RISC default closure level during each of the 14 consecutive quarters in 2007, 2008, 2009, and 2010. Moreover, the benzene concentration at this well has remained below the residential RISC default closure level (5 µg/L) for the last eight consecutive quarters. Benzene concentrations measured in IA1-OW-5 have remained less than the industrial RISC default closure level during the last seven consecutive quarters. Although unnecessary as a basis for terminating groundwater monitoring, the second termination criterion for groundwater monitoring is also clearly met because wells OW-4 and OW-5 have shown benzene concentrations less than the industrial RISC default closure level for more than the two required consecutive quarters.

Insomuch as all objectives of the Corrective Measures Implementation Work Plan have been achieved, Weaver Boos and ArcelorMittal request EPA's review and approval to cease the on-going groundwater monitoring program at IA-1.

5.0 SIGNATURES

This semiannual report for IA1 was prepared by, or under the direct supervision of the undersigned environmental professional:



Steven M. Stanford, LPG
Senior Project Manager

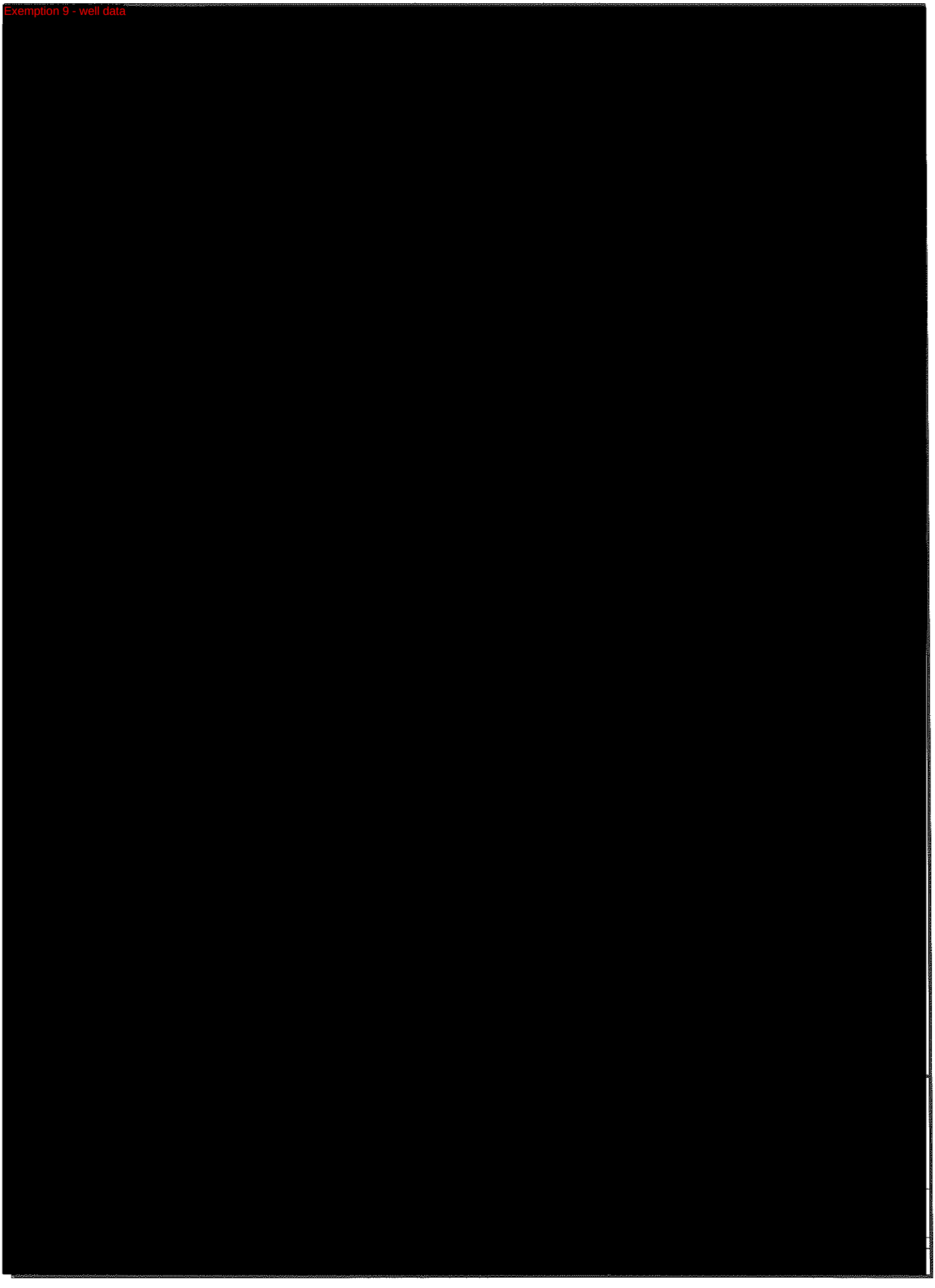
AUGUST 3 2010
Date

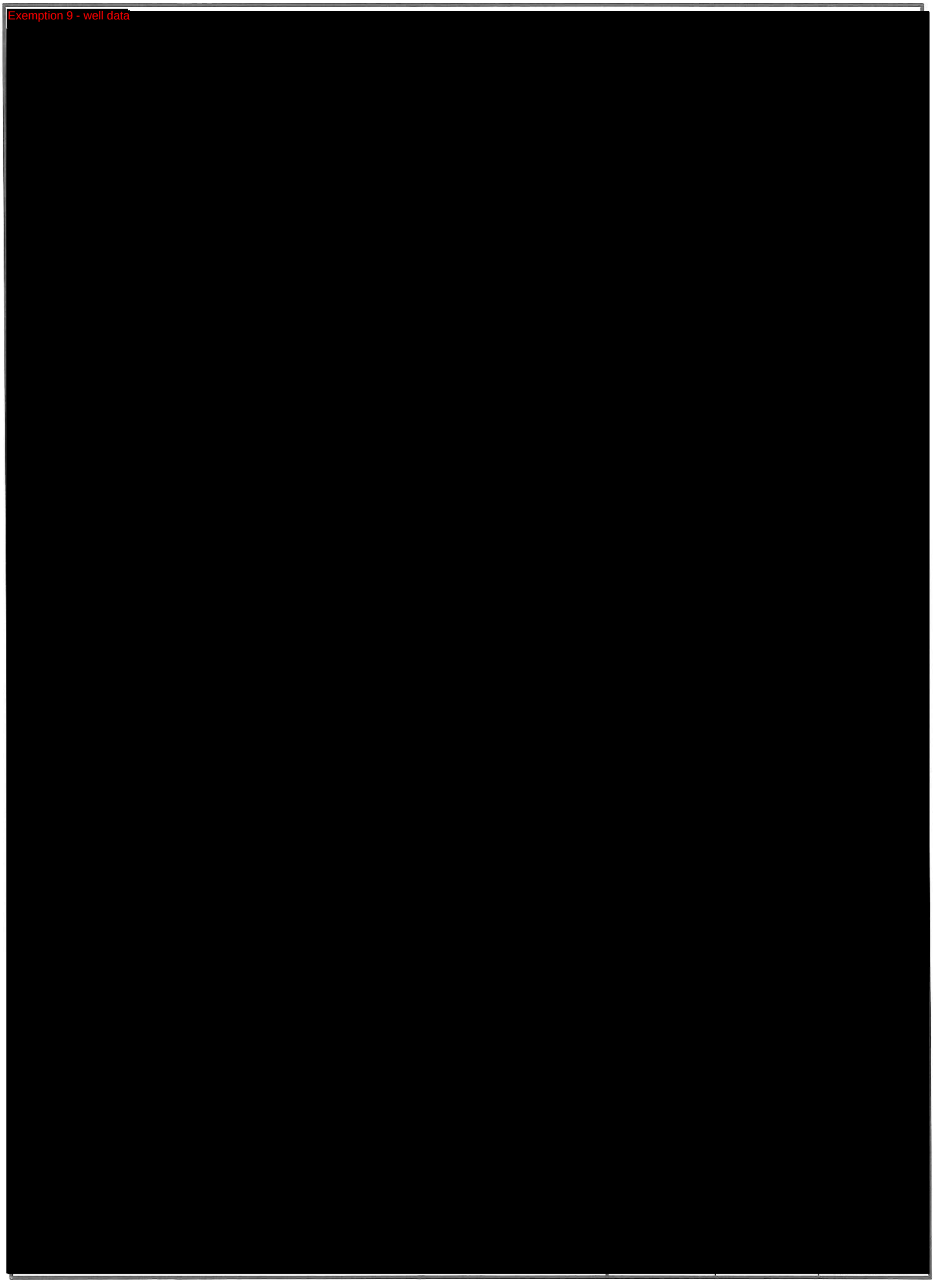
Exp 7-31-2013

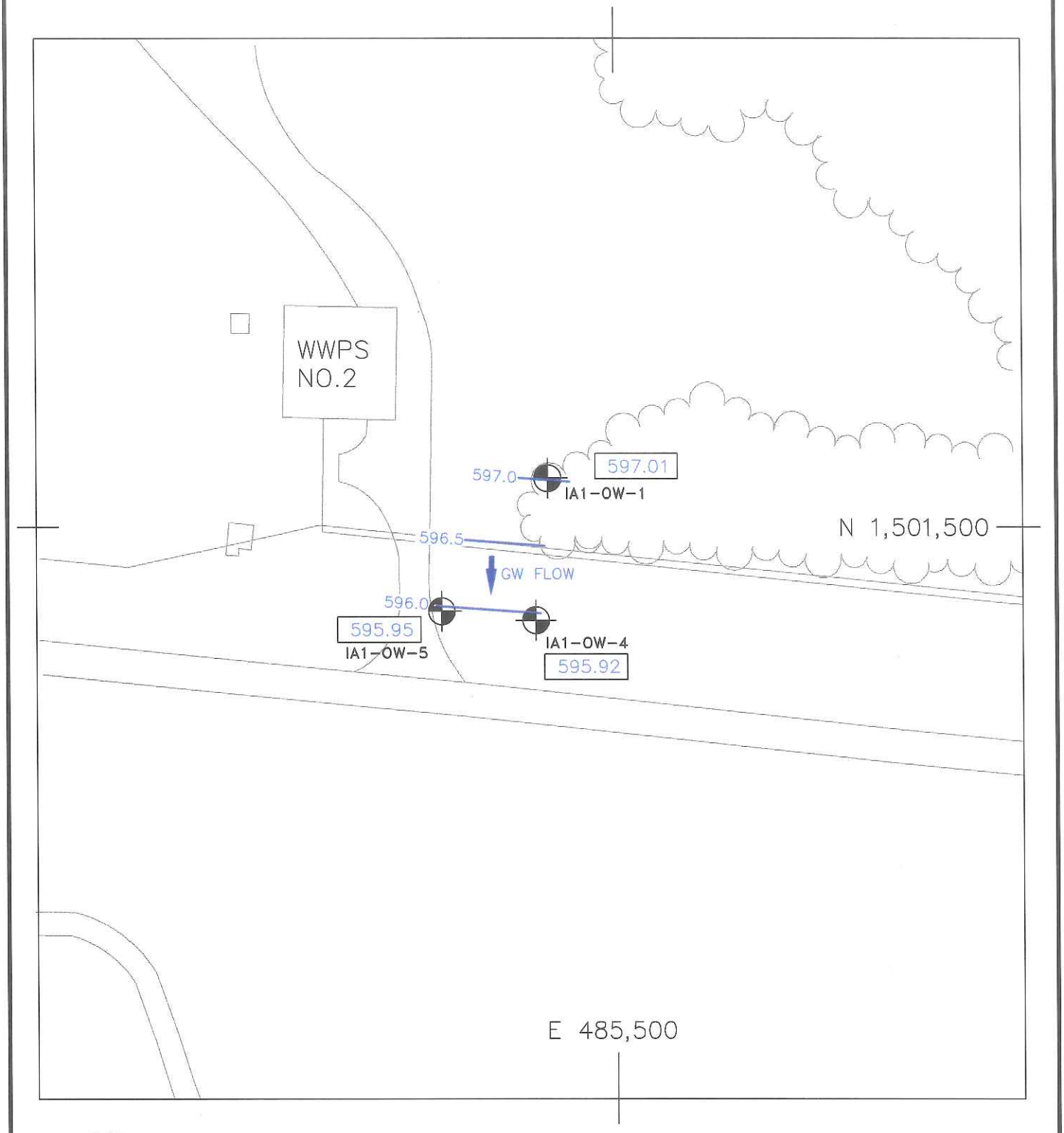
FIGURES

FIGURES

Exemption 9 - well data




Exemption 9 - well data



N

SCALE

0 50' 100'

LEGEND

MONITORING WELL LOCATION

596.56 GROUNDWATER ELEVATION

595.5 GROUNDWATER CONTOUR LINE

POTENTIMETRIC MAP, JUN 15, 2010
IA-1 SURFACE IMPOUNDMENT

ARCELORMITTAL BURNS HARBOR, LLC
CORRECTIVE MEASURES IMPLEMENTATION
BURNS HARBOR, INDIANA

WEAVER BOOS CONSULTANTS

DENVER, CO FT. WORTH, TX	CHICAGO, IL SOUTH BEND, IN	NAPERVILLE, IL SPRINGFIELD, IL
DRAWN BY: SMS	DATE: 08/02/10	FILE: 2387353-01
REVIEWED BY: SMS	CAD: IA1-3	FIGURE 3

MODIFIED FROM FIGURE IA 1-4, BAKER ENVIRONMENTAL, INC., 10/22/02.

Figure 4.
Benzene Concentration & Water Level Time Trend for IA1-OW-1

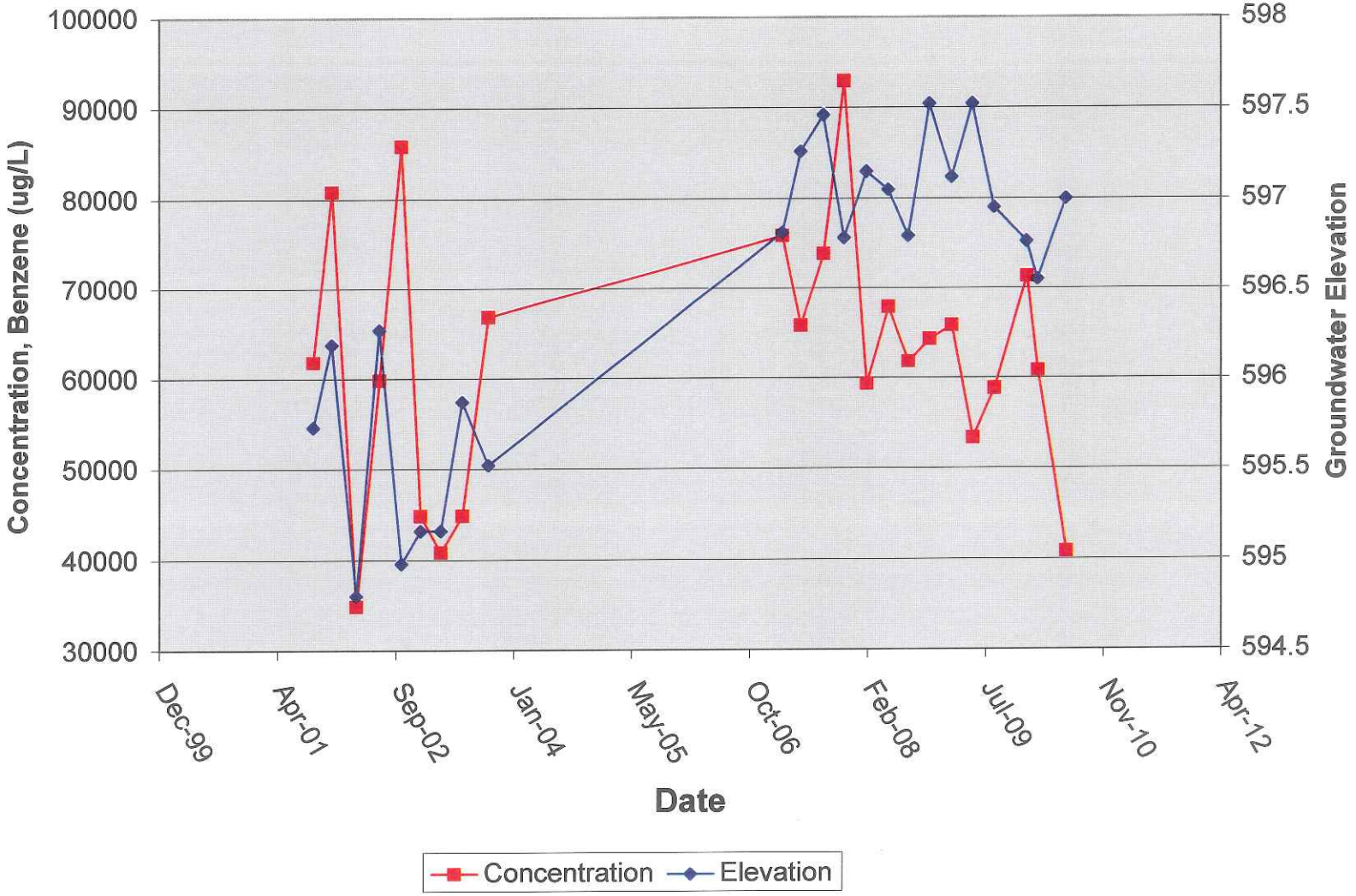


Figure 5.
Benzene Concentration & Water Level Time Trend for IA1-OW-4

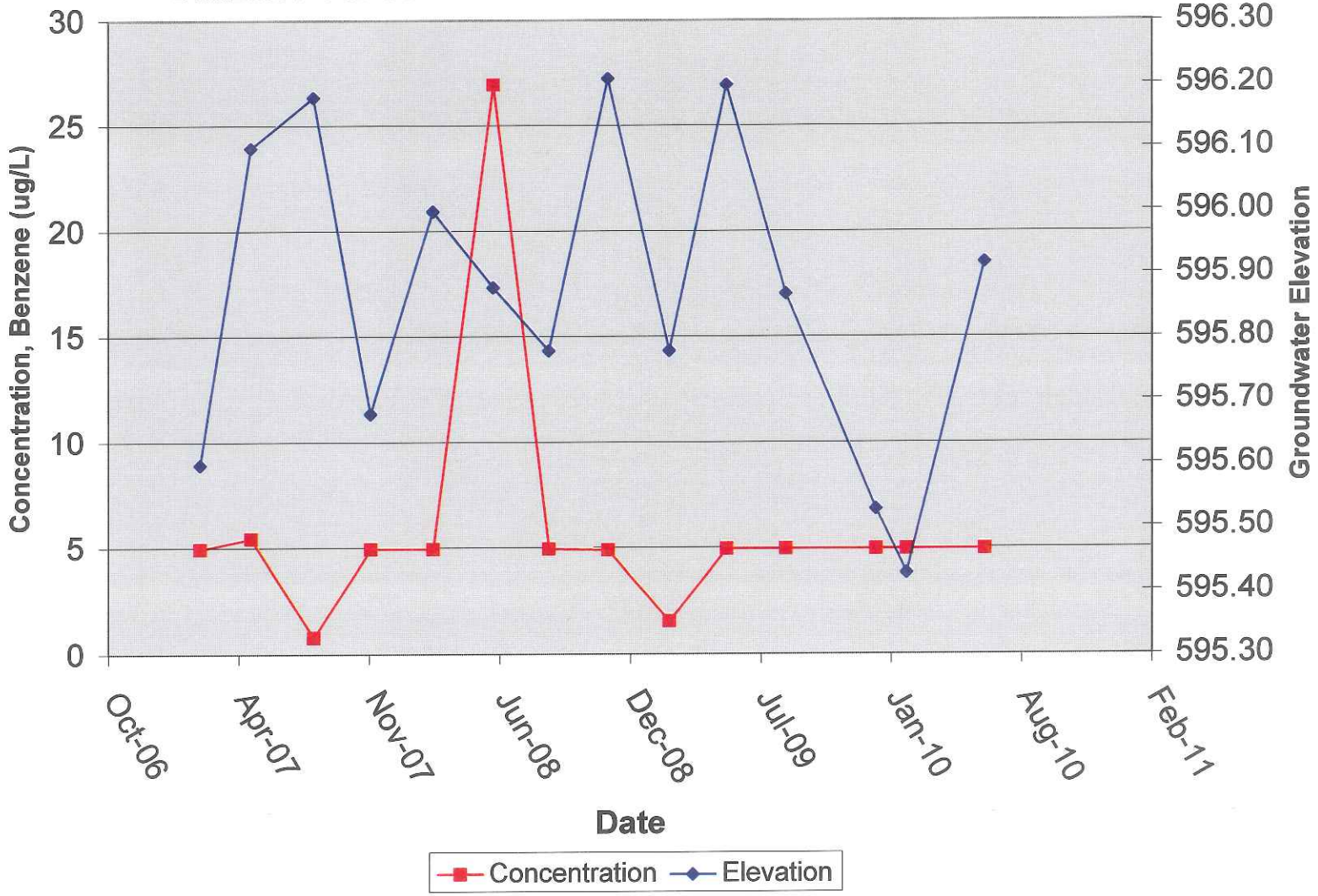


Figure 6.
Benzene Concentration & Water Level Time Trend for IA1-OW-5

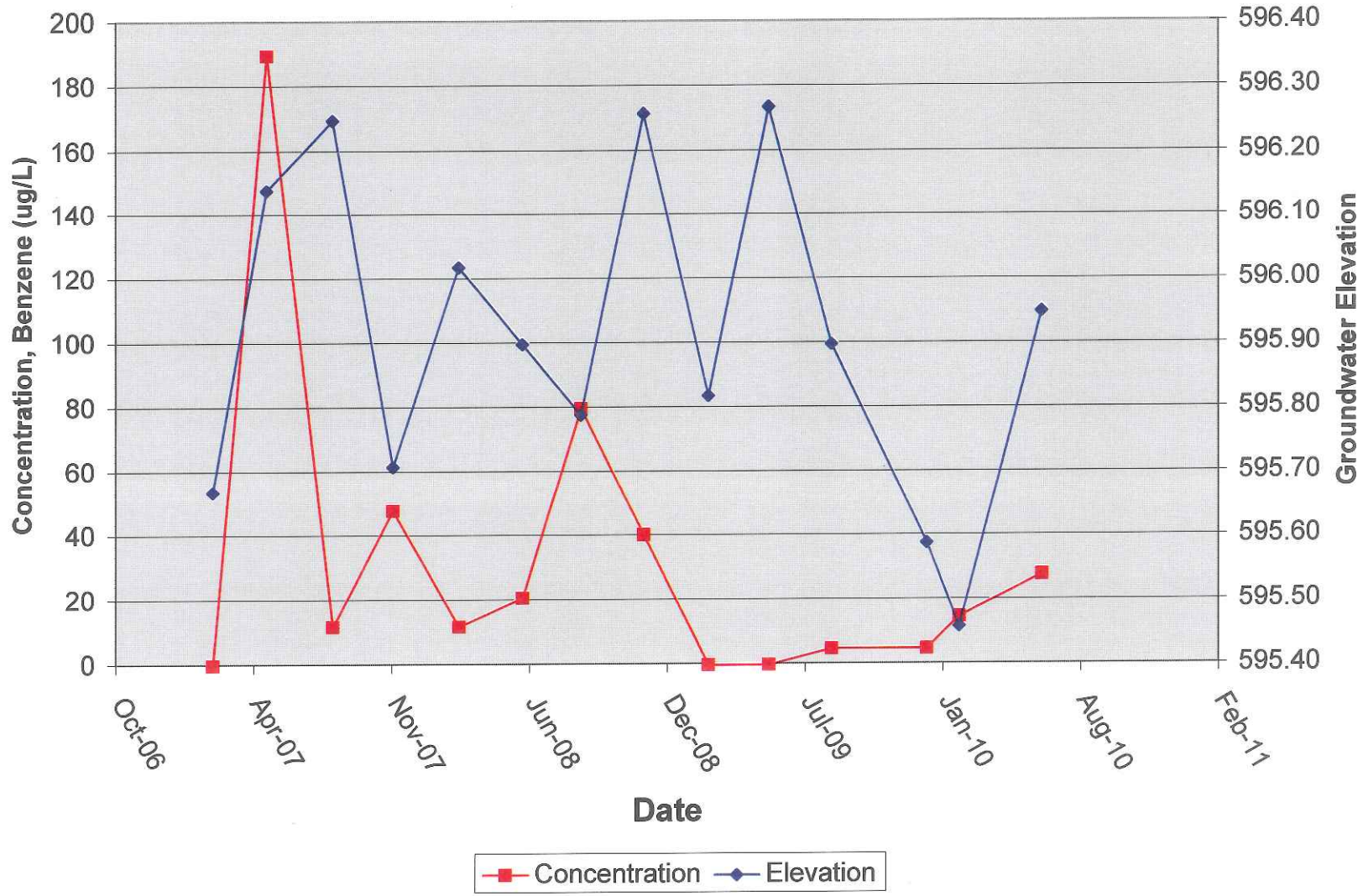


Figure 7.
Mann-Kendall Trend Results
Observation Well IA-OW-1

MONITORING WELL IA-1-OW-1
TREND TEST PERIOD: 2/28/2007 through 6/15/2010

Parameter	Location	Date	Result	Units
Benzene	OW-1	2/28/2007	76000	ug/L
Benzene	OW-1	5/17/2007	66000	ug/L
Benzene	OW-1	8/21/2007	74000	ug/L
Benzene	OW-1	11/15/2007	93000	ug/L
Benzene	OW-1	2/20/2008	59500	ug/L
Benzene	OW-1	5/22/2008	68000	ug/L
Benzene	OW-1	8/15/2008	62000	ug/L
Benzene	OW-1	11/14/2008	64500	ug/L
Benzene	OW-1	2/16/2009	66000	ug/L
Benzene	OW-1	5/15/2009	53500	ug/L
Benzene	OW-1	8/14/2009	59000	ug/L
Benzene	OW-1	12/30/2009	71500	ug/L
Benzene	OW-1	2/15/2010	61500	ug/L
Benzene	OW-1	6/15/2010	41500	ug/L

time prd.	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
concen.	76000	66000	74000	93000	59500	68000	62000	64500	66000	53500	59000	71500	61500	41500	No. +	No -
		-10000	-2000	17000	-16500	-8000	-14000	-11500	-10000	-22500	-17000	-4500	-14500	-34500	1	12
			8000	27000	-6500	2000	-4000	-1500	0	-12500	-7000	5500	-4500	-24500	4	7
				19000	-14500	-6000	-12000	-9500	-8000	-20500	-15000	-2500	-12500	-32500	1	10
					-33500	-25000	-31000	-28500	-27000	-39500	-34000	-21500	-31500	-51500	0	10
						8500	2500	5000	6500	-6000	-500	12000	2000	-18000	6	3
							-6000	-3500	-2000	-14500	-9000	3500	-6500	-26500	1	7
								2500	4000	-8500	-3000	9500	-500	-20500	3	4
									1500	-11000	-5500	7000	-3000	-23000	2	4
										-12500	-7000	5500	-4500	-24500	1	4
											5500	18000	8000	-12000	3	1
												12500	2500	-17500	2	1
													-10000	-30000	0	2
														-20000	0	1
															24	66

Mann Kendall Statistic S =	-42
Standard Normal Z Statistic Z =	-1.938
Large Sample Probability P =	0.026
Trend Direction =	Downward
Trend Probability (%) =	97.4

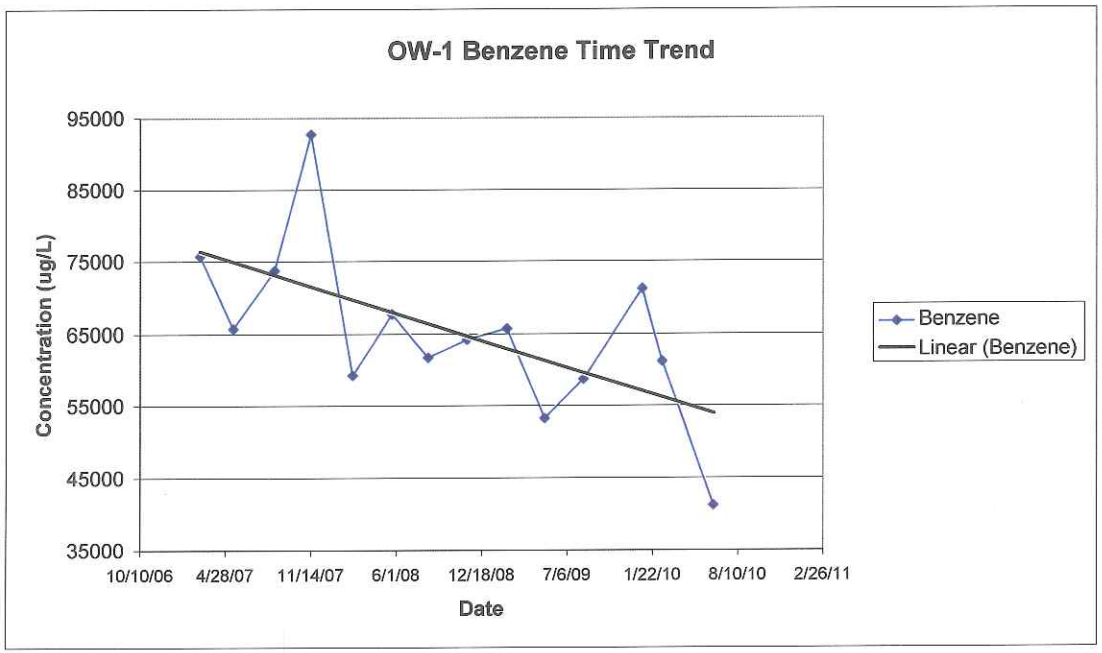


Figure 8.
Mann-Kendall Trend Results
Observation Well IA-OW-4

MONITORING WELL IA-1-OW-4
TREND TEST PERIOD: 2/28/2007 through 6/15/2010

Parameter	Location	Date	Result	Units
Benzene	OW-4	2/28/2007	2.5	ug/L
Benzene	OW-4	5/17/2007	5.5	ug/L
Benzene	OW-4	8/21/2007	0.85	ug/L
Benzene	OW-4	11/15/2007	2.5	ug/L
Benzene	OW-4	2/20/2008	2.5	ug/L
Benzene	OW-4	5/22/2008	27	ug/L
Benzene	OW-4	8/15/2008	2.5	ug/L
Benzene	OW-4	11/14/2008	4.95	ug/L
Benzene	OW-4	2/16/2009	1.6	ug/L
Benzene	OW-4	5/15/2009	2.5	ug/L
Benzene	OW-4	8/14/2009	2.5	ug/L
Benzene	OW-4	12/30/2009	2.5	ug/L
Benzene	OW-4	2/15/2010	2.5	ug/L
Benzene	OW-4	6/15/2010	2.5	ug/L

time prd.	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
concen.	2.5	5.5	0.85	2.5	2.5	27	2.5	4.95	1.6	2.5	2.5	2.5	2.5	2.5	No. +	No -
		3	-1.65	0	0	24.5	0	2.45	-0.9	0	0	0	0	0	3	2
			-4.65	-3	-3	21.5	-3	-0.55	-3.9	-3	-3	-3	-3	-3	1	11
				1.65	1.65	26.15	1.65	4.1	0.75	1.65	1.65	1.65	1.65	2	11	0
					0	24.5	0	2.45	-0.9	0	0	0	0	0	2	1
						24.5	0	2.45	-0.9	0	0	0	0	0	2	1
							-24.5	-22.05	-25.4	-24.5	-24.5	-24.5	-24.5	-25	0	8
								2.45	-0.9	0	0	0	0	0	1	1
									-3.35	-2.45	-2.45	-2.45	-2.45	-2	0	6
										0.9	0.9	0.9	0.9	1	5	0
											0	0	0	0	0	0
												0	0	0	0	0
													0	0	0	0
														0	0	0
															25	30

Mann Kendall Statistic S =	-5
Standard Normal Z Statistic Z =	-0.278
Large Sample Probability P =	0.390
Trend Direction =	Downward
Trend Probability (%) =	61.0

Note: For monitoring well OW-4, values equal to 1/2 of the reporting limit (2.5 ug/L) are substituted for non-detect values of <5.0 ug/L.

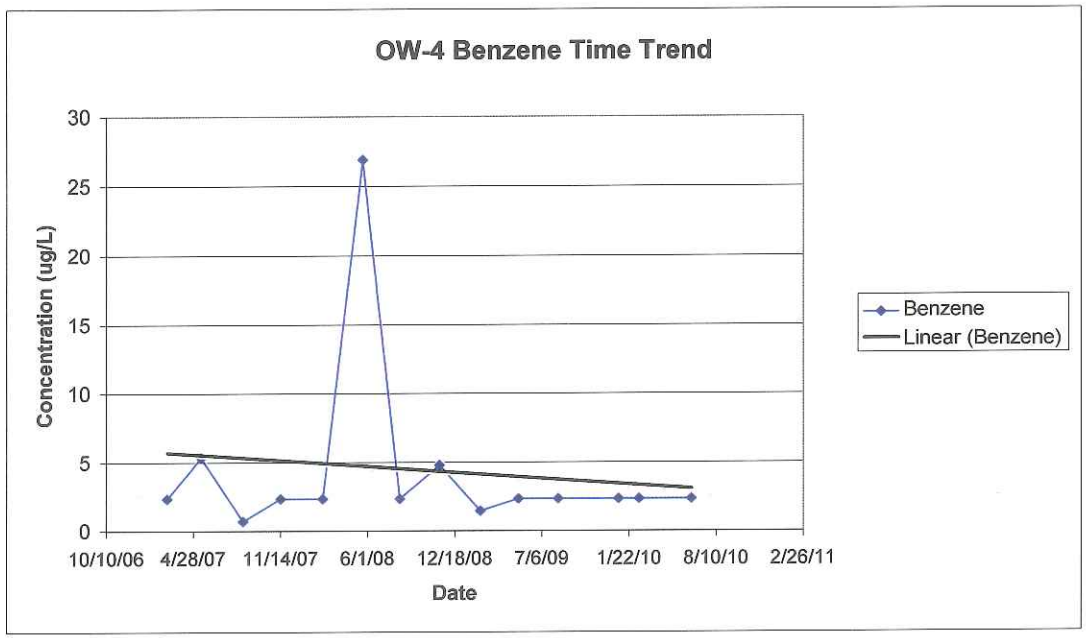


Figure 9.
Mann-Kendall Trend Results
Observation Well IA-OW-5

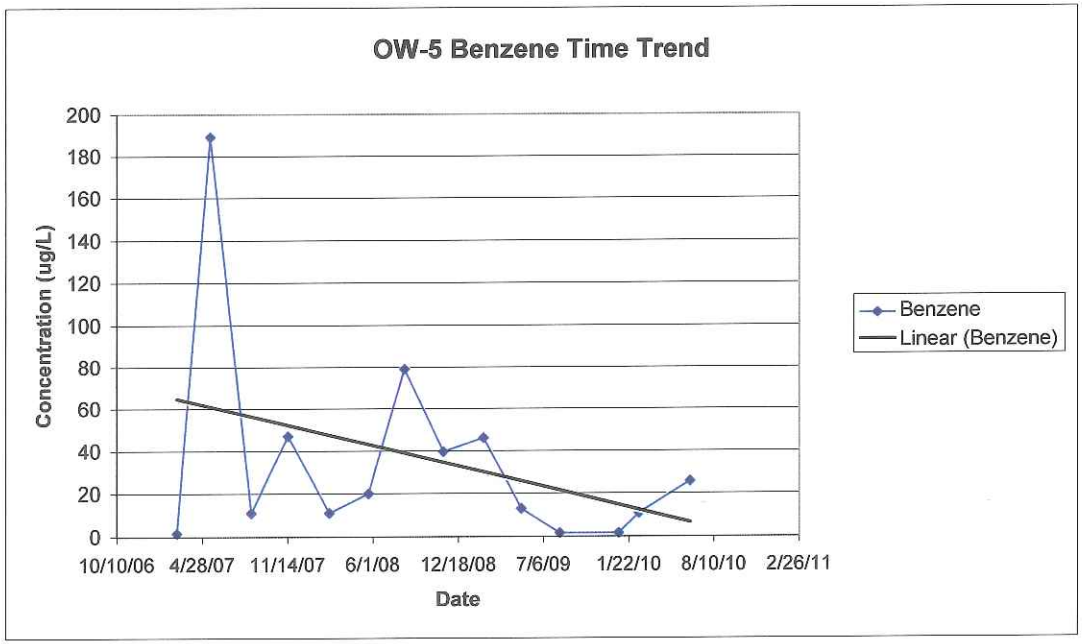
MONITORING WELL IA-1-OW-5
TREND TEST PERIOD: 2/28/2007 through 6/15/2010

Parameter	Location	Date	Result	Units
Benzene	OW-5	2/28/2007	2.5	ug/L
Benzene	OW-5	5/17/2007	190	ug/L
Benzene	OW-5	8/21/2007	12	ug/L
Benzene	OW-5	11/15/2007	48	ug/L
Benzene	OW-5	2/20/2008	12	ug/L
Benzene	OW-5	5/22/2008	21	ug/L
Benzene	OW-5	8/15/2008	80	ug/L
Benzene	OW-5	11/14/2008	40.5	ug/L
Benzene	OW-5	2/16/2009	47	ug/L
Benzene	OW-5	5/15/2009	14	ug/L
Benzene	OW-5	8/14/2009	2.5	ug/L
Benzene	OW-5	12/30/2009	2.5	ug/L
Benzene	OW-5	2/15/2010	11.9	ug/L
Benzene	OW-5	6/15/2010	26.5	ug/L

time prd.	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
concen.	2.5	190	12	48	12	21	80	40.5	47	14	2.5	2.5	11.9	26.5	No. +	No -
		187.5	9.5	45.5	9.5	18.5	77.5	38	44.5	11.5	0	0	9.4	24	11	0
			-178	-142	-178	-169	-110	-149.5	-143	-176	-187.5	-187.5	-178.1	-164	0	12
				36	0	9	68	28.5	35	2	-9.5	-9.5	-0.1	15	7	3
					-36	-27	32	-7.5	-1	-34	-45.5	-45.5	-36.1	-22	1	9
						9	68	28.5	35	2	-9.5	-9.5	-0.1	15	6	3
							59	19.5	26	-7	-18.5	-18.5	-9.1	6	4	4
								-39.5	-33	-66	-77.5	-77.5	-68.1	-54	0	7
									6.5	-26.5	-38	-38	-28.6	-14	1	5
										-33	-44.5	-44.5	-35.1	-21	0	5
											-11.5	-11.5	-2.1	13	1	3
												0	9.4	24	2	0
													9.4	24	2	0
														14.6	1	0
															36	51

Mann Kendall Statistic S =	-15
Standard Normal Z Statistic Z =	-0.724
Large Sample Probability P =	0.235
Trend Direction =	Downward
Trend Probability (%) =	76.5

Note: For monitoring well OW-5, values equal to 1/2 of the reporting limit (2.5 ug/L) are substituted for non-detect values of <5.0 ug/L.



TABLES

TABLES

Table 1
Summary of Groundwater Elevation Data
IA-1 Wastewater Pump Station No. 2 Surface Impoundment
ArcelorMittal Burns Harbor, LLC
250 West U.S. Highway 12
Burns Harbor, IN 46304-9745

Well Indentification	Top of PVC Pipe Elevation (feet)	Date Measured	Depth to Groundwater (feet)	Groundwater Elevation (feet)
IA1-OW-1	615.59	2/15/2010	19.03	596.56
IA1-OW-1	615.59	6/15/2010	18.58	597.01
IA1-OW-4	613.12	2/15/2010	17.69	595.43
IA1-OW-4	613.12	6/15/2010	17.20	595.92
IA1-OW-5	613.03	2/15/2010	17.57	595.46
IA1-OW-5	613.03	6/15/2010	17.08	595.95

Table 2
Summary of Groundwater Monitoring Well Data
IA-1 Wastewater Pump Station No. 2 Surface Impoundment
ArcelorMittal Burns Harbor, LLC
250 West U.S. Highway 12
Burns Harbor, IN 46304-9745

Well and Sample I.D.	Sample Date	Benzene (ug/L)	Site Specific Screening Level (ug/L)	Toluene (ug/L)	Site Specific Screening Level (ug/L)
IA1-OW-1	9/18/2001	62,000		52,000	
IA1-OW-1-2	12/6/2001	81,000		51,000	
IA1-OW-1-3	3/19/2002	35,000		24,000	
IA1-OW-1-4	6/26/2002	60,000		49,000	
IA1-OW-1-5	9/26/2002	86,000		63,000	
IA1-OW-1-6	12/17/2002	45,000		---	
IA1-OW-1-7	3/12/2003	41,000		---	
IA1-OW-1-8	6/12/2003	45,000		---	
IA1-OW-1-9	9/30/2003	67,000		39,000	
IA1-OW-1	2/28/2007	76,000		74,000	
IA1-OW-1	5/17/2007	66,000		65,000	
IA1-OW-1	8/21/2007	74,000	52	71,000	20,000
IA1-OW-1	11/15/2007	93,000		86,000	
IA1-OW-1	2/20/2008	59,500*		66,500*	
IA1-OW-1	5/22/2008	68,000*		68,000*	
IA1-OW-1	8/15/2008	62,000*		65,500*	
IA1-OW-1	11/14/2008	64,500*		60,500*	
IA1-OW-1	2/16/2009	66,000*		---	
IA1-OW-1	5/15/2009	53,500*		---	
IA1-OW-1	8/14/2009	59,000*		---	
IA1-OW-1	12/30/2009	71,500*		---	
IA1-OW-1	2/15/2010	61,500*		---	
IA1-OW-1	6/15/2010	41,500*		---	
IA1-OW-4	2/28/2007	<5.0		<5.0	
IA1-OW-4	5/17/2007	5.5		<5.0	
IA1-OW-4	8/21/2007	0.85		<5.0	
IA1-OW-4	11/16/2007	<5.0		<5.0	
IA1-OW-4	2/20/2008	<5.0*		<5.0*	
IA1-OW-4	5/22/2008	27*		16*	
IA1-OW-4	8/15/2008	<5.0*	52	<5.0*	20,000
IA1-OW-4	11/14/2008	4.95*		2.1*	
IA1-OW-4	2/16/2009	1.6*		---	
IA1-OW-4	5/15/2009	<5.0		---	
IA1-OW-4	8/14/2009	<5.0		---	
IA1-OW-4	12/30/2009	<5.0		---	
IA1-OW-4	2/15/2010	<5.0*		---	
IA1-OW-4	6/15/2010	<5.0*		---	
IA1-OW-5	2/28/2007	<5.0		<5.0	
IA1-OW-5	5/17/2007	**190**		33	
IA1-OW-5	8/21/2007	12		1.2	
IA1-OW-5	11/16/2007	48		130	
IA1-OW-5	2/20/2008	12*		8.05*	
IA1-OW-5	5/22/2008	21*		22.5*	
IA1-OW-5	8/15/2008	**80***	52	68.5*	20,000
IA1-OW-5	11/14/2008	40.5*		485.5*	
IA1-OW-5	2/16/2009	47*		---	
IA1-OW-5	5/15/2009	14*		---	
IA1-OW-5	8/14/2009	<5.0		---	
IA1-OW-5	12/30/2009	<5.0		---	
IA1-OW-5	2/15/2010	11.9*		---	
IA1-OW-5	6/15/2010	26.5*		---	

62000 - Bold value greater than Site Specific Screening Level
--- - Sample not analyzed for this compound.
* analytical results are an average of the sample and duplicate

APPENDIX A

APPENDIX A

Sampling Field Forms

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 1156-351-01
Facility: ArcelorMittal Burns Harbor, LLC
Address: 250 W. U.S. HWY 12, Burns Harbor,
Project Name: RCRA CMI
Date: 2/15/2010

Sample I.D.: **IA1-OW-1 Sample/Duplicate** Sample Source: **Monitoring Well**

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Disposable poly bailer Dedicated (Y / **N**)
Sampling Disposable poly bailer Dedicated (Y / **N**)

PURGING INFORMATION

Purge Date **2/15/2010** Start Purge **11:25 AM** End Purge **11:35 AM**

Water Volume in Casing (gallons) **0.97** Volume purged (gallons) **2.92**
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	**2.0**	(inches)
Stick up	**25.5**	(inches)
Water Level	**19.03**	(feet)
Total Depth	**25.01**	(feet)
Height of Water Col.	**5.98**	(feet)

Note: Gently purge three casing volumes, then sample.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good (Very Good)

SAMPLE INFORMATION

Sampling Date: **2/15/2010**
Sampling Time: **11:38 AM**
Sample Appearance and Odor: **Clear**
Weather Conditions: **No precipitation, 30°, 5-10mph southwest winds**

Comments:

Field blank sampled @ 11:45 AM on 2/15/10

Sampler Name (Print): **Jodi L. E. Slough** Signature: Jodi L. E. Slough

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 1156-351-01
Facility: ArcelorMittal Burns Harbor, LLC
Address: 250 W. U.S. HWY 12, Burns Harbor, I
Project Name: RCRA CMI
Date: 2/15/2010

Sample I.D.: **IA1-OW-4 Sample/Duplicate** Sample Source: **Monitoring Well**

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Disposable poly bailer Dedicated (Y / N)
Sampling Disposable poly bailer Dedicated (Y / N)

PURGING INFORMATION

Purge Date **2/15/2010** Start Purge **11:04 AM** End Purge **11:14 AM**

Water Volume in Casing (gallons) **1.14** Volume purged (gallons) **3.43**
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	**2.0**	(inches)
Stick up	**2.5**	(inches below grade)
Water Level	**17.69**	(feet)
Total Depth	**24.71**	(feet)
Height of Water Col.	**7.02**	(feet)

Note: Gently purge three casing volumes, then sample.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good (Very Good)

SAMPLE INFORMATION

Sampling Date: **2/15/2010**
Sampling Time: **11:14 AM**
Sample Appearance and Odor: **Turbid with odor**
Weather Conditions: **No precipitation, 30°, 5-10mph southwest winds**

Comments:

Sampler Name (Print): **Jodi L. E. Slough** Signature: Jodi L. E. Slough

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 1156-351-01
Facility: ArcelorMittal Burns Harbor, LLC
Address: 250 W. U.S. HWY 12, Burns Harbor,
Project Name: RCRA CMI
Date: 2/15/2010

Sample I.D.: **IA1-OW-5 Sample/Duplicate** Sample Source: **Monitoring Well**

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Disposable poly bailer Dedicated (Y / **N**)
Sampling Disposable poly bailer Dedicated (Y / **N**)

PURGING INFORMATION

Purge Date **2/15/2010** Start Purge **10:35 AM** End Purge **10:45 AM**

Water Volume in Casing (gallons) **1.38** Volume purged (gallons) **4.15**
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	**2.0**	(inches)
Stick up	**4.0**	(inches below grade)
Water Level	**17.57**	(feet)
Total Depth	**26.05**	(feet)
Height of Water Col.	**8.48**	(feet)

Note: Gently purge three casing volumes, then sample.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good (Very Good)

SAMPLE INFORMATION

Sampling Date: **2/15/2010**
Sampling Time: **10:47 AM**
Sample Appearance and Odor: **Slightly Turbid**
Weather Conditions: **No precipitation, 30°, 5-10mph southwest winds**

Comments:

Trip blank prepared by lab dated 2/15/10 @ 0900

Sampler Name (Print): **Jodi L. E. Slough** Signature: Jodi L. E. Slough

WEAVER BOOS
CONSULTANTS, LLC
4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 1156-351-01
Facility: ArcelorMittal Burns Harbor, LLC
Address: 250 W. U.S. HWY 12, Burns Harbor,
Project Name: RCRA CMI
Date: 6/15/2010

Sample I.D.: **IA1-OW-1 Sample/Duplicate** Sample Source: **Monitoring Well**

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Disposable poly bailer Dedicated (Y / **N**)
Sampling Disposable poly bailer Dedicated (Y / **N**)

PURGING INFORMATION

Purge Date **6/15/2010** Start Purge **10:55 AM** End Purge **11:05 AM**

Water Volume in Casing (gallons) **1.05** Volume purged (gallons) **3.14**
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	**2.0**	(inches)
Stick up	**25.5**	(inches)
Water Level	**18.58**	(feet)
Total Depth	**25.01**	(feet)
Height of Water Col.	**6.43**	(feet)

Note: Gently purge three casing volumes, then sample.

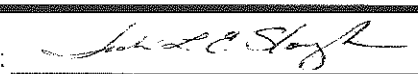
WELL RECHARGE
(circle one)
Very Poor Poor Fair Moderate Good (Very Good)

SAMPLE INFORMATION

Sampling Date: **6/15/2010**
Sampling Time: **11:10 AM**
Sample Appearance and Odor: **Clear**
Weather Conditions: **No precipitation, 85°, 5-10mph southwest winds**

Comments:

Field blank sampled @ 11:20 AM on 6/15/10

Sampler Name (Print): **Jodi L. E. Slough** Signature: 

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 1156-351-01
Facility: ArcelorMittal Burns Harbor, LLC
Address: 250 W. U.S. HWY 12, Burns Harbor, IN
Project Name: RCRA CMI
Date: 6/15/2010

Sample I.D.: **IA1-OW-4 Sample/Duplicate** Sample Source: **Monitoring Well**

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Disposable poly bailer Dedicated (Y / N)
Sampling Disposable poly bailer Dedicated (Y / N)

PURGING INFORMATION

Purge Date **6/15/2010** Start Purge **10:35 AM** End Purge **10:45 AM**

Water Volume in Casing (gallons) **1.22** Volume purged (gallons) **3.67**
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	**2.0**	(inches)
Stick up	**2.5**	(inches below grade)
Water Level	**17.20**	(feet)
Total Depth	**24.71**	(feet)
Height of Water Col.	**7.51**	(feet)

Note: Gently purge three casing volumes, then sample.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good (Very Good)

SAMPLE INFORMATION

Sampling Date: **6/15/2010**
Sampling Time: **10:50 AM**
Sample Appearance and Odor: **Turbid with odor**
Weather Conditions: **No precipitation, 85°, 5-10mph southwest winds**

Comments:

Sampler Name (Print): **Jodi L. E. Slough** Signature: Jodi L. E. Slough

WEAVER BOOS CONSULTANTS, LLC

4085 Meghan Beeler Court, South Bend, IN 46628

FIELD SURVEY REPORT
WATER SAMPLING

File No.: 1156-351-01
Facility: ArcelorMittal Burns Harbor, LLC
Address: 250 W. U.S. HWY 12, Burns Harbor,
Project Name: RCRA CMI
Date: 6/15/2010

Sample I.D.: **IA1-OW-5 Sample/Duplicate** Sample Source: **Monitoring Well**

Type of Sample: (Groundwater) Surface Water Leachate Other: _____

Equipment Used: Purging Disposable poly bailer Dedicated (Y / N)
Sampling Disposable poly bailer Dedicated (Y / N)

PURGING INFORMATION

Purge Date **6/15/2010** Start Purge **10:15 AM** End Purge **10:20 AM**

Water Volume in Casing (gallons) **1.46** Volume purged (gallons) **4.39**
2-inch well has 0.163 gallons/foot

MEASUREMENTS

Well Diameter	**2.0**	(inches)
Stick up	**4.0**	(inches below grade)
Water Level	**17.08**	(feet)
Total Depth	**26.05**	(feet)
Height of Water Col.	**8.97**	(feet)

Note: Gently purge three casing volumes, then sample.

WELL RECHARGE
(circle one)

Very Poor Poor Fair Moderate Good (Very Good)

SAMPLE INFORMATION

Sampling Date: **6/15/2010**
Sampling Time: **10:30 AM**
Sample Appearance and Odor: **Slightly Turbid**
Weather Conditions: **No precipitation, 85°, 5-10mph southwest winds**

Comments:

Trip blank prepared by lab dated 6/15/2010

Sampler Name (Print): **Jodi L. E. Slough** Signature: Jodi L. E. Slough

APPENDIX B

APPENDIX B

Analytical Results

Microbac®

February 26, 2010

Teri Kirk
Arcelor Mittal Steel USA - Burns Harbor
250 W US Highway 12
Burns Harbor, IN 46304-9745

Work Order No.: ME1002500

RE: IA-1 Sampling/Burns Harbor

Dear Teri Kirk:

Microbac Laboratories, Inc. received 8 samples on 2/15/2010 12:35:00 PM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Carey A. Gadzala
Project Manager

Enclosures

Microbac®

WORK ORDER SAMPLE SUMMARY

Date: *Friday, February 26, 2010*

CLIENT: Arcelor Mittal USA, Inc.
Project: IA-1 Sampling/Burns Harbor
Lab Order: ME1002500

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
ME1002500-01A	IA1-OW-1 Sample		2/15/2010 11:38:00 AM	2/15/2010
ME1002500-02A	IA1-OW-1 Duplicate		2/15/2010 11:38:00 AM	2/15/2010
ME1002500-03A	IA1-OW-4 Sample		2/15/2010 11:14:00 AM	2/15/2010
ME1002500-04A	IA1-OW-4 Duplicate		2/15/2010 11:14:00 AM	2/15/2010
ME1002500-05A	IA1-OW-5 Sample		2/15/2010 10:47:00 AM	2/15/2010
ME1002500-06A	IA1-OW-5 Duplicate		2/15/2010 10:47:00 AM	2/15/2010
ME1002500-07A	Trip Blank		2/15/2010 9:00:00 AM	2/15/2010
ME1002500-08A	Field Blank		2/15/2010 11:45:00 AM	2/15/2010

Microbac®

ANALYTICAL RESULTS

Date: *Friday, February 26, 2010*

Client:	Arcelor Mittal Steel USA - Burns Harbor		
Client Project:	IA-1 Sampling/Burns Harbor		
Client Sample ID:	IA1-OW-1 Sample	*Work Order / ID:*	ME1002500-01A
Sample Description:		*Collection Date:*	02/15/10 11:38
Sample Matrix:	Aqueous	*Date Received:*	02/15/10 12:35

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
BTEX	Method: **SW8260B**		Prep Date/Time:				Analyst: **JLN**
Benzene	A	***61000***	2500		µg/L	500	02/25/10 01:41
Surr: 4-Bromofluorobenzene	S	94.4	76.9-116		%REC	500	02/25/10 01:41

Microbac®

ANALYTICAL RESULTS

Date: *Friday, February 26, 2010*

Client:	Arcelor Mittal Steel USA - Burns Harbor		
Client Project:	IA-1 Sampling/Burns Harbor		
Client Sample ID:	IA1-OW-1 Duplicate	***Work Order / ID:***	ME1002500-02A
Sample Description:		***Collection Date:***	02/15/10 11:38
Sample Matrix:	Aqueous	***Date Received:***	02/15/10 12:35

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
BTEX	Method: **SW8260B**		Prep Date/Time:				Analyst: **JLN**
Benzene	A	***62000***	2500		µg/L	500	02/25/10 02:16
Surr: 4-Bromofluorobenzene	S	94.5	76.9-116		%REC	500	02/25/10 02:16

Microbac®

ANALYTICAL RESULTS

Date: *Friday, February 26, 2010*

Client:	Arcelor Mittal Steel USA - Burns Harbor		
Client Project:	IA-1 Sampling/Burns Harbor		
Client Sample ID:	IA1-OW-4 Sample	*Work Order / ID:*	ME1002500-03A
Sample Description:		*Collection Date:*	02/15/10 11:14
Sample Matrix:	Aqueous	*Date Received:*	02/15/10 12:35

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
BTEX	Method: **SW8260B**		Prep Date/Time:				Analyst: **JLN**
Benzene	A	*ND*	5.0		µg/L	1	02/24/10 15:27
Surr: 4-Bromofluorobenzene	S	92.2	76.9-116		%REC	1	02/24/10 15:27

Microbac®

ANALYTICAL RESULTS

Date: *Friday, February 26, 2010*

Client:	Arcelor Mittal Steel USA - Burns Harbor		
Client Project:	IA-1 Sampling/Burns Harbor		
Client Sample ID:	IA1-OW-4 Duplicate	*Work Order / ID:*	ME1002500-04A
Sample Description:		*Collection Date:*	02/15/10 11:14
Sample Matrix:	Aqueous	*Date Received:*	02/15/10 12:35

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
BTEX	Method: **SW8260B**		Prep Date/Time:				Analyst: **JLN**
Benzene	A	*ND*	5.0		µg/L	1	02/24/10 16:01
Surr: 4-Bromofluorobenzene	S	92.7	76.9-116		%REC	1	02/24/10 16:01

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ANALYTICAL RESULTS

Date: *Friday, February 26, 2010*

Client:	Arcelor Mittal Steel USA - Burns Harbor		
Client Project:	IA-1 Sampling/Burns Harbor		
Client Sample ID:	IA1-OW-5 Sample	***Work Order / ID:***	ME1002500-05A
Sample Description:		***Collection Date:***	02/15/10 10:47
Sample Matrix:	Aqueous	***Date Received:***	02/15/10 12:35

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
BTEX	Method: **SW8260B**			Prep Date/Time:			Analyst: **JLN**
Benzene	A	***15***	5.0	b	µg/L	1	02/25/10 19:27
Surr: 4-Bromofluorobenzene	S	99.1	76.9-116		%REC	1	02/25/10 19:27

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ANALYTICAL RESULTS

Date: *Friday, February 26, 2010*

Client:	Arcelor Mittal Steel USA - Burns Harbor		
Client Project:	IA-1 Sampling/Burns Harbor		
Client Sample ID:	IA1-OW-5 Duplicate	***Work Order / ID:***	ME1002500-06A
Sample Description:		***Collection Date:***	02/15/10 10:47
Sample Matrix:	Aqueous	***Date Received:***	02/15/10 12:35

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
BTEX	Method: **SW8260B**		Prep Date/Time:				Analyst: **JLN**
Benzene	A	***8.8***	5.0	b	µg/L	1	02/25/10 19:59
Surr: 4-Bromofluorobenzene	S	98.3	76.9-116		%REC	1	02/25/10 19:59

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ANALYTICAL RESULTS

Date: *Friday, February 26, 2010*

Client:	Arcelor Mittal Steel USA - Burns Harbor		
Client Project:	IA-1 Sampling/Burns Harbor		
Client Sample ID:	Trip Blank	***Work Order / ID:***	ME1002500-07A
Sample Description:		***Collection Date:***	02/15/10 09:00
Sample Matrix:	Aqueous	***Date Received:***	02/15/10 12:35

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
BTEX	Method: **SW8260B**		Prep Date/Time:				Analyst: **JLN**
Benzene	A	*ND*	5.0		µg/L	1	02/24/10 18:12
Surr: 4-Bromofluorobenzene	S	92.6	76.9-116		%REC	1	02/24/10 18:12

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ANALYTICAL RESULTS

Date: *Friday, February 26, 2010*

Client:	Arcelor Mittal Steel USA - Burns Harbor		
Client Project:	IA-1 Sampling/Burns Harbor		
Client Sample ID:	Field Blank	*Work Order / ID:*	ME1002500-08A
Sample Description:		*Collection Date:*	02/15/10 11:45
Sample Matrix:	Aqueous	*Date Received:*	02/15/10 12:35

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
BTEX	Method: **SW8260B**		Prep Date/Time:				Analyst: **JLN**
Benzene	A	*ND*	5.0		µg/L	1	02/24/10 20:30
Surr: 4-Bromofluorobenzene	S	92.0	76.9-116		%REC	1	02/24/10 20:30

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FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed	N/A	=	Not Applicable			
mg/L	=	Milligrams per Liter (ppm)	ug/L	=	Micrograms per Liter (ppb)	cfu	=	Colony Forming Unit
mg/Kg	=	Milligrams per Kilogram (ppm)	ug/Kg	=	Micrograms per Kilogram (ppb)	ng/L	=	Nanograms per Liter (ppt)

U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
j	=	Analyte concentration detected betweeen 1/2 PQL and PQL (for TIC analytes only)
B	=	Detected in the associated Method Blank at a concentration above the routine PQL/RL
b	=	Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL
D	=	Surrogate recoveries are not calculated due to sample dilution
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate

DF = Dilution Factor RL = Reporting Limit ST = Sample Type MDL = Method Detection Limit

SAMPLE TYPES

A	=	Analyte
I	=	Internal Standard
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"	OPR	=	Ongoing Precision and Recovery Standard
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"			
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate			
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate			
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank			
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification			
PDS	=	Post Digestion Spike	SD	=	Serial Dilution			

CERTIFICATIONS

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
- Kentucky DEP for the chemical analysis of drinking water (lab #90147)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
- New York SDH for the chemical analysis of air and emissions (lab #11909)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Tennessee DEC for the chemical analysis of drinking water (lab #04017)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)

Baltimore Division - Baltimore, MD
Camp Hill Division - Camp Hill, PA
Camp Hill Division (SC) - Pittston, PA
Chicagoland Division - Merrillville, IN
Chicagoland Division (SC) - Indianapolis, IN
Southern California Division - Corona, CA
Erie Division - Erie, PA
Fayetteville Division - Fayetteville, NC
Hauser Division - Boulder, CO
Kentucky Division - Louisville, KY
Kentucky Division (Sat) - Evansville, IN
Kentucky Division (Sat) - Lexington, KY
Kentucky Division (Sat) - Paducah, KY
Knoxville Division - Maryville, TN
Massachusetts Division - Worchester, MA
Microbac Corporate Office - Pittsburgh, PA
Microbac NY - Cortland Office - Cortland, NY
Microbac NY - Waverly Office - Waverly, NY
Ohio Valley Division - Marietta, OH
Pittsburgh Division - Warrendale, PA
Richmond Division - Richmond, VA
South Carolina Division - New Ellenton, SC
South Jersey Division - Laurel Springs, NJ
Southern Headquarters - Poquoson, VA
Southern Testing Division - Wilson, NC
Southern Testing Division (Sat) - Greensboro, NC
Venice Division - Venice, FL

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COOLER INSPECTION

Date: Friday, February 26, 2010

Client Name **Arcelor Mittal Steel USA - Burn**

Work Order Number **ME1002500**

Checklist completed by DEB | 2/15/2010 1:59:55 PM

Date / Time Received: **2/15/2010 12:35:00 PM**

Received by: DEB

Reviewed by CAG | 2/15/2010 4:13:38 PM

Carrier name: Client Delivered

After-Hour Arrival?	Yes ☐	No ☑	
Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody included sufficient client identification?	Yes ☑	No ☐	
Chain of custody included sufficient sample collector information?	Yes ☑	No ☐	
Chain of custody included a sample description?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Chain of custody identified the appropriate matrix?	Yes ☑	No ☐	
Chain of custody included date of collection?	Yes ☑	No ☐	
Chain of custody included time of collection?	Yes ☑	No ☐	
Chain of custody identified the appropriate number of containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
If samples are preserved, are the preservatives identified?	Yes ☑	No ☐	
Samples properly preserved?	Yes ☑	No ☐	

If No, adjusted by? _____ Date/Time _____

Chain of custody included the requested analyses?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Samples received on ice?	Yes ☑	No ☐

Container/Temp Blank temperatures	Cooler	Temp
	1	1 °C

VOA vials for aqueous samples have zero headspace? No VOA vials submitted ☐ Yes ☑ No ☐

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

General Comments:

Sample ID	Client Sample ID	Comments
ME1002500-01A	IA1-OW-1 Sample	
ME1002500-02A	IA1-OW-1 Duplicate	
ME1002500-03A	IA1-OW-4 Sample	
ME1002500-04A	IA1-OW-4 Duplicate	
ME1002500-05A	IA1-OW-5 Sample	
ME1002500-06A	IA1-OW-5 Duplicate	
ME1002500-07A	Trip Blank	
ME1002500-08A	Field Blank	

Teri Kirk
IA-1 Sampling/Burns Harbor
ME1002500 ISG - BURNS HARBOR 2/24/2010 CAG

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Samples Submitted to:
[ ] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 94826

Instructions on back

Client Name: ArcelorMittal	Project: IAI Sampling	Turnaround Time	Report Type
Address: 250 West Hwy 12	Location: Burns Harbor	[X] Routine (7 working days)	[X] Results Only [ ] Level II
City, State, Zip: Burns Harbor, Indiana	PO #: 2387-353-01-02	[ ] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact: Teri Kirk	Compliance Monitoring? [X] Yes(1) [ ] No	(needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone #:	(1)Agency/Program		[ ] EDD

Sampled by (PRINT): Jodi Slough Sampler Signature: Jodi Slough Sampler Phone #: 574.271.3447

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address)

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	Benzene								For Lab Use Only 1002500
IAI-OW-1 Sample	GW	✓			2/15/10	11:38	3	3	✓								01 A
IAI-OW-1 Duplicate	GW	✓			2/15/10	11:38	3	3	✓								02
IAI-OW-4 Sample	GW	✓			2/15/10	11:14	3	3	✓								03
IAI-OW-4 Duplicate	GW	✓			2/15/10	11:14	3	3	✓								04
IAI-OW-5 Sample	GW	✓			2/15/10	10:47	3	3	✓								05
IAI-OW-5 Duplicate	GW	✓			2/15/10	10:47	3	3	✓								06
Trip Blank	W	✓			2/15/10	0900	3	3	✓								07
Field Blank	W	✓			2/15/10	11:45	3	3	✓								08

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments

Sample temperature upon receipt in degrees C = 1°C OI

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Jodi Slough	2/15/10, 1:35e		
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time
			2/15/10 1235

rev. 11/04/04

Page 1 of 1

June 25, 2010

Arcelor Mittal USA, Inc.
250 W US Highway 12
Burns Harbor, IN 46304-9745

Work Order No.: 10F0658

Re: IAW

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 8 sample(s) on 6/15/2010 12:40:00PM for the analyses presented in the following report as Work Order 10F0658.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,
Microbac Laboratories, Inc.

Carey Gadzala
Project Manager

Microbac®

WORK ORDER SAMPLE SUMMARY

Date: *Friday, June 25, 2010*

Client: Arcelor Mittal USA, Inc.
Project: IAW
Lab Order: 10F0658

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10F0658-01	IA1-OW-1 Sample		06/15/2010 11:10	6/15/2010 12:40:00PM
10F0658-02	IA1-OW-1 Duplicate		06/15/2010 11:10	6/15/2010 12:40:00PM
10F0658-03	IA1-OW-4 Sample		06/15/2010 10:50	6/15/2010 12:40:00PM
10F0658-04	IA1-OW-4 Duplicate		06/15/2010 10:50	6/15/2010 12:40:00PM
10F0658-05	IA1-OW-5 Sample		06/15/2010 10:30	6/15/2010 12:40:00PM
10F0658-06	IA1-OW-5 Duplicate		06/15/2010 10:30	6/15/2010 12:40:00PM
10F0658-07	Field Blank		06/15/2010 11:20	6/15/2010 12:40:00PM
10F0658-08	Trip Blank		06/15/2010 00:00	6/15/2010 12:40:00PM

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Analytical Results

Date: *Friday, June 25, 2010*

Client:	Arcelor Mittal USA, Inc.		
Client Project:	IAW	**Work Order/ID:**	10F0658-01
Client Sample ID:	IA1-OW-1 Sample	**Sampled:**	06/15/2010 11:10
Sample Description:		**Received:**	06/15/2010 12:40
Matrix:	Aqueous		

Analyses		AT	Result	RL	Qual	Units	DF	Analyzed
			Method: **SW-846 8260B**					Analyst: **JLN**
BTEX								Prep Date/Time: **06/19/2010 00:00**
Benzene		A	***41000***	2500		µg/L	500	06/22/2010 11:38

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Analytical Results

Date: *Friday, June 25, 2010*

Client: Arcelor Mittal USA, Inc.
Client Project: IAW
Client Sample ID: IA1-OW-1 Duplicate
Sample Description:
Matrix: Aqueous

Work Order/ID: 10F0658-02
Sampled: 06/15/2010 11:10
Received: 06/15/2010 12:40

Analyses		AT	Result	RL	Qual	Units	DF	Analyzed
			Method: **SW-846 8260B**					Analyst: **BR**
BTEX								Prep Date/Time: **06/19/2010 00:00**
Benzene		A	***40000***	5000		µg/L	1000	06/19/2010 18:22

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Analytical Results

Date: *Friday, June 25, 2010*

Client: Arcelor Mittal USA, Inc.
Client Project: IAW
Client Sample ID: IA1-OW-4 Sample
Sample Description:
Matrix: Aqueous

Work Order/ID: 10F0658-03
Sampled: 06/15/2010 10:50
Received: 06/15/2010 12:40

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: **SW-846 8260B**					Analyst: **BR**
BTEX							Prep Date/Time: **06/19/2010 00:00**
Benzene	A	*ND*	5.0		µg/L	1	06/19/2010 18:55

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Analytical Results

Date: *Friday, June 25, 2010*

Client:	Arcelor Mittal USA, Inc.		
Client Project:	IAW	**Work Order/ID:**	10F0658-04
Client Sample ID:	IA1-OW-4 Duplicate	**Sampled:**	06/15/2010 10:50
Sample Description:		**Received:**	06/15/2010 12:40
Matrix:	Aqueous		

Analyses		AT	Result	RL	Qual	Units	DF	Analyzed
			Method: **SW-846 8260B**					Analyst: **BR**
BTEX								Prep Date/Time: **06/18/2010 00:00**
Benzene		A	*ND*	5.0		µg/L	1	06/18/2010 17:19

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Analytical Results

Date: *Friday, June 25, 2010*

Client:	Arcelor Mittal USA, Inc.		
Client Project:	IAW	**Work Order/ID:**	10F0658-05
Client Sample ID:	IA1-OW-5 Sample	**Sampled:**	06/15/2010 10:30
Sample Description:		**Received:**	06/15/2010 12:40
Matrix:	Aqueous		

Analyses		AT	Result	RL	Qual	Units	DF	Analyzed
			Method: **SW-846 8260B**					Analyst: **BR**
BTEX								Prep Date/Time: **06/18/2010 00:00**
Benzene		A	*28*	5.0		µg/L	1	06/18/2010 17:48

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Analytical Results

Date: *Friday, June 25, 2010*

Client:	Arcelor Mittal USA, Inc.		
Client Project:	IAW	**Work Order/ID:**	10F0658-06
Client Sample ID:	IA1-OW-5 Duplicate	**Sampled:**	06/15/2010 10:30
Sample Description:		**Received:**	06/15/2010 12:40
Matrix:	Aqueous		

Analyses	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: **SW-846 8260B**				Analyst: **BR**
BTEX							Prep Date/Time: **06/18/2010 00:00**
Benzene	A	*25*	5.0		µg/L	1	06/18/2010 18:17

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Analytical Results

Date: *Friday, June 25, 2010*

Client:	Arcelor Mittal USA, Inc.		
Client Project:	IAW	**Work Order/ID:**	10F0658-07
Client Sample ID:	Field Blank	**Sampled:**	06/15/2010 11:20
Sample Description:		**Received:**	06/15/2010 12:40
Matrix:	Aqueous		

Analyses		AT	Result	RL	Qual	Units	DF	Analyzed
			Method: **SW-846 8260B**					Analyst: **BR**
BTEX								Prep Date/Time: **06/18/2010 00:00**
Benzene		A	*ND*	5.0		µg/L	1	06/18/2010 18:46

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Analytical Results

Date: *Friday, June 25, 2010*

Client:	Arcelor Mittal USA, Inc.		
Client Project:	IAW	**Work Order/ID:**	10F0658-08
Client Sample ID:	Trip Blank	**Sampled:**	06/15/2010 0:00
Sample Description:		**Received:**	06/15/2010 12:40
Matrix:	Aqueous		

Analyses		AT	Result	RL	Qual	Units	DF	Analyzed
			Method: **SW-846 8260B**					Analyst: **BR**
BTEX								Prep Date/Time: **06/18/2010 00:00**
Benzene		A	*25*	5.0		µg/L	1	06/18/2010 19:14

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FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

NA	=	Not Analyzed
mg/L	=	Milligrams per Liter (ppm)
mg/Kg	=	Milligrams per Kilogram (ppm)
U	=	Undetected
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)
B	=	Detected in the associated method Blank at a concentration above the routine PQL/RL
D	=	Dilution performed on sample
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
E	=	Value above quantitation range
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time
I	=	Matrix Interference
R	=	RPD outside accepted recovery limits
S	=	Spike recovery outside recovery limits
Surr	=	Surrogate
DF	=	Dilution Factor

ANALYTE TYPES

A,B	=	Target Analyte
I	=	Internal Standard
M	=	Summation Analyte
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate
BS	=	Method Blank Spike	BSD	=	Method Blank Spike Duplicate
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification
PDS	=	Post Digestion Spike	SD	=	Serial Dilution
OPR	=	Ongoing Precision and Recovery Standard			

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Indiana DEM approved support laboratory for solid waste and wastewater analyses
Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
Kentucky DEP for the chemical analysis of drinking water (lab #90147)
Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
New York SDH for the chemical analysis of air and emissions (lab #11909)
North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations(certificate #597)
Tennessee DEC for the chemical analysis of drinking water (lab #04017)
Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

Microbac

COOLER INSPECTION

Date: Friday, June 25, 2010

Client Name: Arcelor Mittal USA, Inc.

Date/Time Received: 06/15/2010 12:40

Work Order Number: 10F0658

Received by: Dan Petreikis

Checklist completed by: 6/15/2010 1:09:00PM | Dan Petreikis

Reviewed by: 6/15/2010 | CAG

Carrier Name: Client Delivered

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 4.00°C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☑	No	☐		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		
COC included the requested analyses?	Yes	☑	No	☐		

If No, adjusted by? _____

COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☑	No	☐		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☑	No	☐	No VOA vials submitted	☐

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
10F0658-01	IA1-OW-1 Sample	
10F0658-02	IA1-OW-1 Duplicate	
10F0658-03	IA1-OW-4 Sample	
10F0658-04	IA1-OW-4 Duplicate	
10F0658-05	IA1-OW-5 Sample	
10F0658-06	IA1-OW-5 Duplicate	
10F0658-07	Field Blank	
10F0658-08	Trip Blank	

Microbac ®

Samples Submitted to:
[ ] 250 West 84th Drive, Merrillville, IN 46410, Tel: 219-769-8378, Fax: 219-769-1664
[ ] 5713 West 85th Street, Indianapolis, IN 46278, Tel: 317-872-1375, Fax: 317-872-1379

Chain of Custody Record

Number 97194

Instructions on back

10-0668 Carey Gadzala
ArcelorMittal - Burns Harbor, IN
Monthly

Client Name: ArcelorMittal	Project: IAI Sampling	Turnaround Time	Report Type
Address: 250 W. US Highway 12	Location: Burns Harbor IN	[X] Routine (7 working days)	[X] Results Only [ ] Level II
City, State, Zip: Burns Harbor, IN	PO #: 2387-353-01-03	[ ] RUSH* (notify lab)	[ ] Level III [ ] Level III CLP-like
Contact: Teri Kirk	Compliance Monitoring? [X] Yes(1) [ ] No	(needed by)	[ ] Level IV [ ] Level IV CLP-like
Telephone #: 219.787.4643	(1)Agency/Program		[ ] EDD

Sampled by (PRINT): Jodi Slough Sampler Signature: Jodi Slough Sampler Phone #: 574.952.5280

Send Report via [ ] Mail [ ] Telephone [ ] Fax (fax #) [X] e-mail (address)

* **Matrix Types:** Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** **Preservative Types:** (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

05/15/2010

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	Benzene								For Lab Use Only
																	1 of 0658
IAI-OW-1 Sample	GW	✓			6/15/10	1110	3	3	✓								01
IAI-OW-1 Duplicate	GW	✓			6/15/10	1110	3	3	✓								02
IAI-OW-4 Sample	GW	✓			6/15/10	1050	3	3	✓								03
IAI-OW-4 Duplicate	GW	✓			6/15/10	1050	3	3	✓								04
IAI-OW-5 Sample	GW	✓			6/15/10	1030	3	3	✓								05
IAI-OW-5 Duplicate	GW	✓			6/15/10	1030	3	3	✓								06
Field Blank	W	✓			6/15/10	1120	3	3	✓								07
Trip Blank	W	✓			6/15/10	LAB	3	3	✓								08

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive

Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments

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Sample temperature upon receipt in degrees C = 4° 5

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Jodi Slough	6/15/10, 1240		
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time
		[illegible]	6/15/10 1240

rev. 11/04/04

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